PART I — REMstar Nasal CPAP System

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1.1 SPECIFICATIONS

CPAP Pressure Range: 2.5 - 20 cm H_2O

Physical Dimensions:
Weight: <6.0 lbs. (2.72 kg)
Height: 9.0 in. (22.9 cm)
Width: 5.75 in. (14.6 cm)

Filtering Capabilities: A reusable and an optional 0.3 micron disposable filter.

Pressure Stability: Within ±1 cm H_2O with 70 l/min leak over time and operating conditions.

Electrical Requirements:

Input Voltage Settings: 115 / 230 VAC; 12-24 VDC

Input Voltage Range: 100-130 / 200-260 VAC; 12-24 VDC

Power Consumption: The maximum power required to operate a REMstar is 125 VA. The actual power used is dependent on the prescription pressure and usage (breathing) pattern. The lower the patient's prescription, the lower the power required. Typical requirements are less than 100 VA.

Fuse Specification:

Unit Voltage Setting	Fuse Type
115 VAC	800 mA, 5 x 20 mm T Type
230VAC	400 mA, 5 x 20 mm T Type

Current Requirements: When the voltage selector switch is set to 115 VAC, the maximum steady state current will not exceed 800 mA and is more likely to be 700 mA or less. When the voltage selector switch is set to 230 VAC, the maximum steady state current will not exceed 400 mA and is more likely to be 350 mA or less.

NOTE: The power cord supplied with the REMstar is a 2-prong plug because the unit is double-insulated.

Battery Specifications for DC Power Operation:

The REMstar unit can be operated in a motor vehicle that has a working cigarette lighter and a fully charged Deep Cycle Battery (see below). For pressures of 11 cm H_2O and below, connect the unit to the cigarette lighter using a Respironics DC Cord. For pressures greater than 11 cm H_2O, connect the unit to the cigarette lighter using a DC Interface module.

WARNING: The unit must be connected to a system that has a negative ground.

Polarity: On the plug end, the outside of the barrel is ground, and the inside is positive. On the cigarette lighter adapter end, the center pin is positive and the outside tab is ground.

At pressures of 11 cm H_2O and below, and using a Respironics DC cord to a 12 V battery:

Power Consumption: *40 Watts maximum*

Current Requirements: The maximum current will not exceed 2.5 Amps DC.

Battery Size Recommended: 12 VDC Deep Cycle Battery with 30 Amp hour rating (minimum) for 8 hours of use.

NOTE: For proper operation, the battery voltage should remain above 11.5 Volts for the expected time of use.

At pressures greater than 11 cm H_2O, and using a Respironics DC Interface Module:

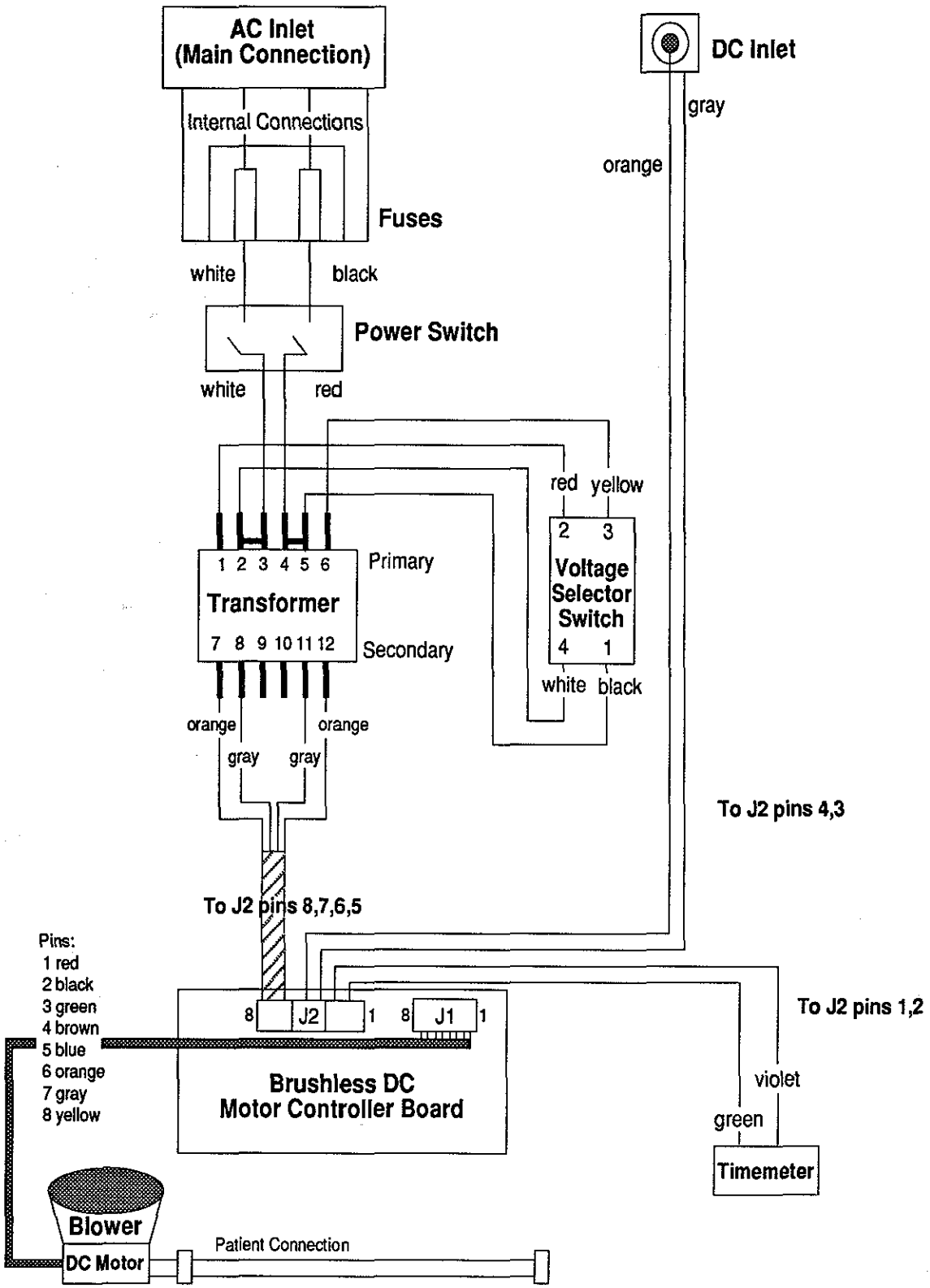
Power Consumption: The maximum power required to operate a REMstar is 80 Watts. The actual power used is dependent on the prescription pressure and usage (breathing) pattern. The lower the prescription pressure, the lower the power required. Typical requirements are less than 50 Watts.

Current Requirements: The maximum steady state current will not exceed 7 Amps DC. Actual use will vary according to prescription pressure and usage pattern, but is likely to be 3.5 Amps DC.

Battery Size Recommended: 12 VDC Deep Cycle Battery with 90 Amp hour rating (minimum) for 8 hours of use.

NOTE: For proper operation, the battery output must not fall below 11.5 Volts. If this occurs, the module will emit a buzzing sound.

1.2 INTERNAL WIRING DIAGRAM



2.1 WARNINGS, CAUTIONS, AND NOTES

WARNINGS

- U.S. Federal law restricts the sale or the use of this device to be on the order of a licensed physician only.
- If the patient presents a contamination risk to the unit, a bacteria filter may be placed in-line between the unit and the patient. The following filters are recommended:
  Respirgard-II
  Perma systems BAC-Trap
  Other filters may be unacceptable due to high pressure drops.
- All patient settings must be determined via appropriate diagnostic testing and monitoring.
- The Whisper Swivel® is designed to exhaust CO_2 from the patient circuit. Continuous flow is required for safe operation. DO NOT BLOCK OR OTHERWISE TRY TO SEAL THE SLOTS ON THE WHISPER SWIVEL.
- Oxygen supports combustion. Oxygen should not be used while smoking or in the presence of an open flame.
- Disinfectant residues left on the patient circuit parts may shorten their useful life and irritate the patient's skin. Rinse all items thoroughly after disinfection.
- To avoid electrical shock, unplug the REMstar unit before cleaning it.
- To avoid electrical shock, disconnect the electrical supply before changing the fuses.
- For continued protection against risk of fire, replace fuses with those of the same type and rating only.
- Performance verification must be performed prior to delivery of the REMstar unit to the patient.
- The unit is powered when the cord is connected to the main supply. The on/off switch enables/disables the blower only.

CAUTIONS

- The unit must be positioned on its base for proper operation.
- The voltage selector switch must be set for proper line voltage (in North America; 115 V).
- Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

NOTES

- Only patient tubing with a smooth inner lumen and a nominal inner diameter of 3/4 in. (22 mm fitting) should be used. The overall length of the tubing should not exceed twelve feet.

2.2 ADJUSTING THE PRESSURE AND RAMP TIME TO THE PATIENT'S PRESCRIPTION

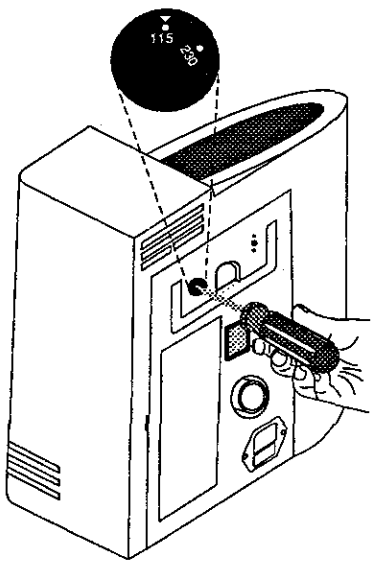
WARNING: If the REMstar unit has been exposed to either very hot or very cold temperatures, allow the unit to adjust to room temperature before beginning the Setup and Adjustment procedures.

NOTE: To perform REMstar installation and set up properly, you will need a manometer capable of reading pressure in centimeters of water and a straight-shank, slotted screwdriver (smaller than 1/8 in.). For ease in pressure verification, an O_2 Enrichment Attachment is available from Respironics (P/N 312710), but is not required.

STEP 1 Set up the REMstar System

a. Voltage/Fuse Adjustment:

Make sure the voltage selector switch on the back of the unit is set with the correct supply voltage opposite the triangle. Use a standard slotted screwdriver to change the voltage if necessary. Refer to the user instruction manual for appropriate voltage settings.



NOTE: If you change the voltage setting, the fuses must also be changed. The REMstar is packed with two sets of fuses. One set of fuses is for travel to countries with a different supply voltage. The other set is for replacement of blown fuses in the country of purchase. Refer to the user instruction manual for instructions on how to change the fuses. If a fuse blows immediately after replacement, the unit should be returned for servicing.

b. Connect the patient circuit to the unit. Either an NRV-2 or a Whisper

Swivel may be used in the circuit. It is preferable to use the type of circuit on which the patient was tested.

c. **Option 1** - Connect manometer tubing to the outlet port on the mask (Figure 1).

- or -

Option 2 - Remove the mask from the circuit and replace it with an O_2 Enrichment Attachment. Connect the manometer tubing to the outlet port on the attachment (Figure 2).

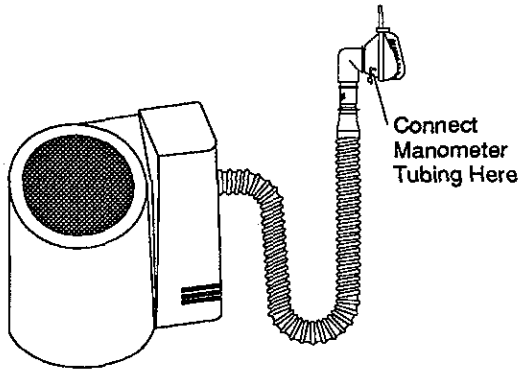


Figure 1

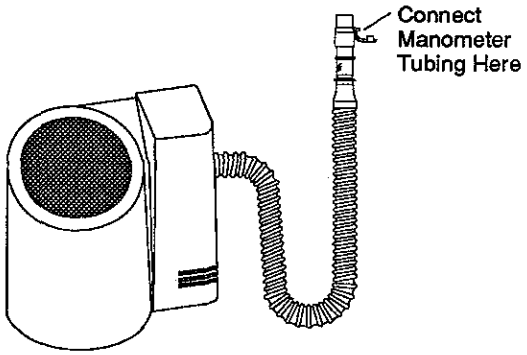


Figure 2

d. Connect the other end of the manometer tubing to a manometer.

e. Plug one end of the power cord into the back of the unit and the other into an electrical outlet. Turn the unit ON (|).

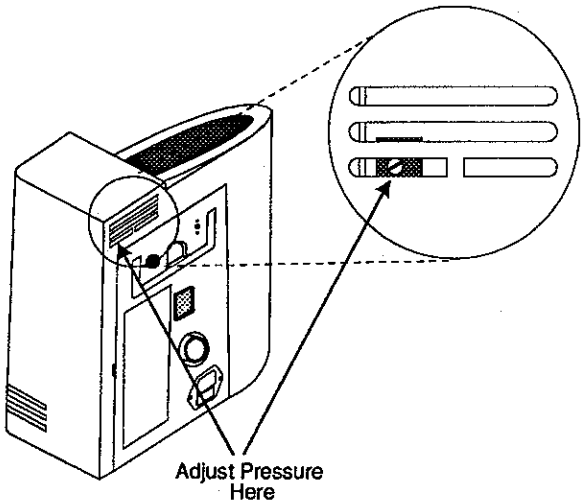
f. Allow the unit to warm up at least five minutes before beginning Step 2.

STEP 2 Adjust the Pressure to the Patient's Prescription

NOTE: All REMstar units are shipped from Respironics with the pressure set between 8 and 10 cm H_2O.

a. Occlude the circuit outlet either at the mask or at the O_2 Enrichment Attachment. Observe the delivered pressure on the manometer.

b. On the rear of the unit, in the upper left corner, there are three slots. You can see the pressure control through the bottom slot (see illustration). Insert a small, standard flat-head screwdriver (smaller than 1/8") approximately 3/8" in from the left side of the slot.



c. To **increase** the pressure, slowly turn the pressure control knob counter-clockwise.

To **decrease** the pressure, slowly turn the pressure control knobclockwise.

One full turn will adjust the unit from the lowest to the highest pressure.

d. When the prescribed pressure is attained, remove the screwdriver.

e. Open the circuit outlet and occlude again to verify the pressure reading on the manometer. Readjust if necessary.

3 ROUTINE MAINTENANCE

The REMstar unit should be inspected annually. After inspection, fill out the maintenance chart in the Patient Instructions so that the patient will have a record of all maintenance performed.

- Verify the prescription pressure as shown in Section 2 of this manual. If the pressure reading is incorrect, refer to Section 4 "Troubleshooting."

- Filters should be replaced as recommended below or more frequently if necessary. Refer to Section 6 "Repair and Replacement" for detailed instructions on filter cleaning and/or replacement.

  White Disposable Filter: Replace once per month, or sooner if necessary.

  When using the optional white filter, the filter retaining ring or filter securing kit must be used to hold the filter in place.

  Gray Reusable Filter: Wash once per month and replace every six months.

  To wash the gray reusable filter, rinse the filter in a steady stream of running water. Squeeze out the water and rinse again. The filter may be air dried on a rack for 8 to 12 hours or in a clothes drier on high for 15 to 20 minutes. If you are drying the filter with other articles, allow the filter to remain in the drier throughout the entire drying cycle.

- Check the fuses. Because visual inspection can be difficult on slow blow fuses such as the ones used in the REMstar, check them for continuity using an ohmmeter. If either fuse measures open circuit or appears darkened in any spot, replace both fuses. Refer to Section 6 "Repair and Replacement" for detailed instructions on fuse replacement.

- Clean the exterior of the unit as needed with a soft cloth using warm water and a mild detergent.

- Check the Whisper Swivel®, if used, for dirty or occluded slots.

4.1 TROUBLESHOOTING

NOTE: For detailed replacement instructions, refer to Section 6.

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

If you require technical assistance during any of these troubleshooting procedures, call:

Respironics' Technical Service Department 800-722-4271.
Monday through Friday - 7:30 a.m. to 4:30 p.m. EST

Problem	Possible Causes	Corrective Action
ON/OFF Switch lights but no air blows out.	Voltage selector switch is set to wrong voltage.	Verify proper voltage setting. If unit is set at 230 V, but plugged into a 115 V line, the unit will not operate. If unit is set at 115 V, but is plugged into a 230 V line, the fuses will blow.
	Motor wire is not securely plugged into the J1 position on the circuit board.	Check motor wire connection.
	Transformer is faulty or wiring connections are not complete.	Check integrity of wiring connections at switch to transformer, transformer to circuit board, and transformer to voltage selector switch. Resistance between transformer pins 5/6 and 1/2 should be approximately 10.6 ohms if the switch is on 230 V, and 5.3 ohms if the switch is on 115V. If it is not, replace the transformer.
	Blower assembly is faulty.	Replace blower assembly. If the same problem continues, the problem is in the circuit board, since the transformer and wiring have been checked.
	Circuit board is faulty.	Replace circuit board.
Unit does not turn on and ON/OFF switch does not light.	Power cord is not firmly connected to the unit or the power cord is not plugged into a working socket.	Check that the power cord is firmly connected to the unit. Check that the power cord is plugged into a working socket (by using a known working lamp, etc.)
	The ON/OFF switch may be dimly lit.	Examine the switch to be sure it is not dimly lit. If it is, the problem may be low line voltage. Also, see the section "Switch lights but no air blows out."
	Voltage selector switch is set to wrong voltage.	Verify proper voltage setting. If the unit is set to 115 V, but plugged into a 230 V line, the fuses will blow.

Problem	Possible Causes	Corrective Action
Unit does not turn on and ON/OFF switch does not light. (continued)	Fuses are blown.	Check the fuses. Because visual inspection can be difficult on slow blow fuses, such as those used in REM star, check them for continuity using an ohmeter. If either fuse measures open circuit or appears darkened in any spot, **replace both fuses.** * If the fuses blow again, there is a problem in either in the circuit board or the blower: 1. Visually inspect the circuit board for any "hot" spots and replace it if any are detected. 2. Verify that the blower is operating correctly by plugging it into connector J1 of a spare circuit board (or the board of another unit). Also, plug in the transformer at J2 to bring power to the new circuit board. Adjust it through the full range of pressures. If the blower does not operate properly, replace the blower.
	Power switch malfunction.	Check proper operation using an ohmeter. The top and bottom of each side should be open when "OFF" and closed when "ON." Replace if faulty.
	If using 12 volt DC source, check that the system uses a negative ground.	See Section 1 for additional DC system specifications.
	Line voltage may have fallen below 93 VAC when using a 115 V voltage source or below 186 VAC when using a 230 V voltage source. The internal components will not function if this occurs.	Verify that the line voltage is adequate.
Unit starts and stops erratically.	Power cord is not firmly connected to the unit or the power cord is not firmly connected into a working socket.	Check that the power cord is firmly connected to the unit. Check that the power cord is plugged into a working socket.

Problem	Possible Causes	Corrective Action
Unit starts and stops erratically. (continued)	Motor wire is not securely plugged into the J1 position on the Main Control Board.	Check the motor wire at J1 on the Main Control Board.
Unit delivers inadequate pressure.	Filter(s) are dirty or clogged.	Replace filter(s) and instruct patient on proper care as detailed in the user instructions.
	Leak in patient circuit.	Check for proper mask fit and that the mask is not damaged or in need of replacement. Check for any leaks at the joints in the patient circuit (i.e. mask/NRV-2 or Whisper Swivel, tubing to unit or NRV/Whisper Swivel). If leaks or damage are discovered, replace as needed.
	Leak internal to the unit.	Check that blower outlet is completely installed into blower outlet flexible coupling and not blocking blower air flow. Remove the cover as in Section 5. If necessary re-install the blower into the coupling. Check that blower sealing tape is installed completely around the blower joint, especially at the blower outlet. Check that all three blower assembly fasteners are properly installed (snapped into position). Check the integrity of the joints of the parts attached to the blower top. Replace blower top if necessary.

Problem	Possible Causes	Corrective Action
Unit delivers inadequate pressure. (continued)	Blower or circuit board malfunction.	Check if the pressure can be adjusted with the potentiometer on the circuit board throughout the operating pressure range. Refer to Section 2 for detailed instructions. If the pressure range is not fully adjustable, follow the steps below: **Step 1:** Check blower by plugging it into another circuit board. If the blower functions properly, replace the circuit board. Refer to Section 6 for detailed instructions. **Step 2:** Check circuit board by plugging another blower into it. If the new blower functions properly, replace the blower. Refer to Section 6 for detailed instructions.
	Low line/battery voltage.	Verify that the line voltage has not fallen below 93 VAC when using a 115 V line voltage source or 186 VAC when using a 230 V line voltage source. If operating from a battery, verify that the battery voltage has not fallen below 11.5 VDC.
Time meter does not work.	Time meter or circuit board malfunctioning.	Replace time meter. If new time meter does not work check circuit board. Check the voltage of the bottom pin on Q7. Voltage should be 5 VDC ±5%. If it is not, replace circuit board.

Problem	Possible Causes	Corrective Action
Unit delivers excessive pressure.	Blower or main circuit board malfunction.	Check if the pressure can be adjusted with the potentiometer on the circuit board throughout the operating pressure range. Refer to Section 2 for detailed instructions. If the pressure range is not fully adjustable, follow the steps below. Step 1: Check blower by plugging it into another circuit board. If the blower functions properly, replace the circuit board. Refer to Section 6 for detailed instructions. Step 2: Check circuit board by plugging another blower into it. If the new blower functions properly, replace the blower. Refer to Section 6 for detailed instructions.

Problem	Possible Causes	Corrective Action
Air from unit seems too warm.	The air temperature at the patient end of the six-foot tubing should be no more than five (5) degrees F above the temperature of the air at the inlet. Before checking the actual air temperature rise, check the following: room air temperature has risen; room humidity has increased; air inlet filter (particularly the white disposable one) has become blocked or dirty; patient's condition has changed (has a fever).	Replace filter(s) if dirty, and instruct patient on proper care as detailed in the patient instructions. Take measures to have patient decrease the room air temperature or humidity.
	Humidifier is being used with hot water.	Instruct patient to use cool or lukewarm water in the humidifier.
	Unit is next to radiator or other heat source (e.g. hot air vents, light bulbs).	Move the unit away from the heat source.
	Blower or main circuit board malfunction.	Check if the pressure can be adjusted with the potentiometer on the circuit board throughout the operating pressure range. Refer to Section 2 for detailed instructions. If the pressure range is not fully adjustable, follow the steps below. Step 1: Check blower by plugging it into another circuit board. If the blower functions properly, replace the circuit board. Refer to Section 6 for detailed instructions. Step 2: Check circuit board by plugging another blower into it. If the new blower functions properly, replace the blower. Refer to Section 6 for detailed instructions.

Problem	Possible Causes	Corrective Action
Excessive noise or vibration.	Possible blower malfunction.	Replace the blower.
Pressure fluctuations of ± 1.0 cm H_2O or greater exist.	Blower or main circuit board malfunction.	Plug alternate blower assembly into circuit board. If the new blower functions properly, check the integrity of the green/red/black motor wires on the old blower. Repair if required, or install new blower. If the new blower has the same symptom, replace the circuit board.
	Main circuit board is faulty.	Replace main circuit board.
	Unit operated with water level too high in the humidifier.	Remove excess water from the humidifier.
Pressure won't go below approximately 5 cm H_2O.	Blower or main circuit board malfunction.	Plug alternate blower assembly into circuit board. If the new blower functions properly, check the integrity of the orange/blue/brown motor wires on the old blower. Repair if required, or install new blower. If the new blower has the same symptom, replace the circuit board.
Unit does not operate on 230 V, but does on 115 V.	Fuses need to be replaced.	Fuse type may be incorrect. Fuses must be changed when the voltage setting is changed: **Unit voltage setting:** 115 VAC **Fuse type:** 800 mA, 5 x 20 mm T **Unit voltage setting:** 230 VAC **Fuse type:** 400 mA, 5 x 20 mm T Check the fuses. Because visual inspection can be difficult on slow blow fuses such as the ones used in the REMstar, check them for continuity with an ohmeter. If either fuse measures open circuit or appears darkened in any spot, replace both fuses.

Problem	Possible Causes	Corrective Action
Unit does not operate on 230 V, but does on 115 V. (continued)	Transformer needs to be replaced.	Unplug the unit. Remove the cover and the main circuit board. Check the continuity of the wiring connections from the AC inlet to the transformer, from the transformer to the circuit board, and from the transformer to the voltage selector switch. **WARNING:** AC voltage will be exposed with the cover off and the unit plugged in. Plug the unit into the AC supply. Use care when making measurements. Verify the transformer primary voltage by measuring between pins 3 (white) and 4 (black). The voltage should be the same as the input voltage source (100-127 VAC or 200-250 VAC). Verify the transformer secondary voltage by measuring between each set of orange and grey wires. The voltage should be approximately 15.5 ± 1.0 VAC. If the primary voltage is not the same as the input voltage, there is fault in the AC inlet, the primary wiring, or the voltage selector switch. Repair as needed. Refer to the wiring diagram for assistance. If there is primary voltage, but no secondary voltage, the transformer is faulty. Replace the transformer.

5.1 REMOVING THE COVER

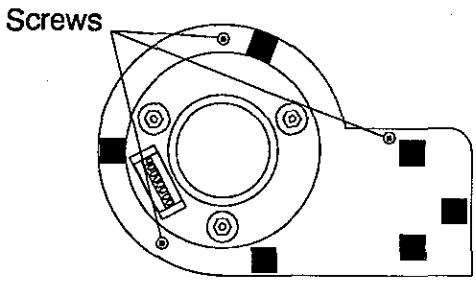
Tools Needed:

- Phillips Screwdriver
- Slotted Screwdriver, 3/16 in.

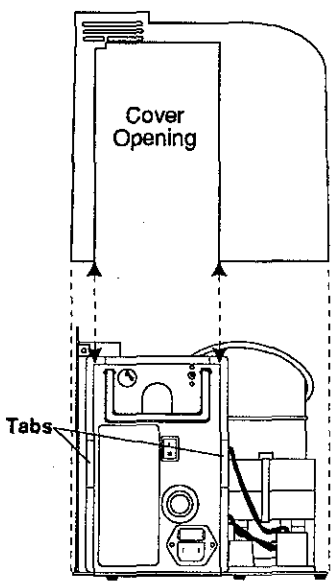
WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

STEP 1 Remove the gray filter by gently pulling around the edges of the filter. Lay the unit on its back. Using a Phillips screwdriver, remove the three screws in the bottom of the unit. Set the unit upright.



STEP 2 Set the unit upright, with the back of the unit facing you. Grasp the cover in both hands and begin to lift it off the unit while slightly pushing the cover away from you. The cover may tend to get stuck where the three screws were attached, or on the left side, where the printed circuit board is located. If so, reach underneath the raised cover and pull it outward, away from the unit.



5.2 REPLACING THE COVER

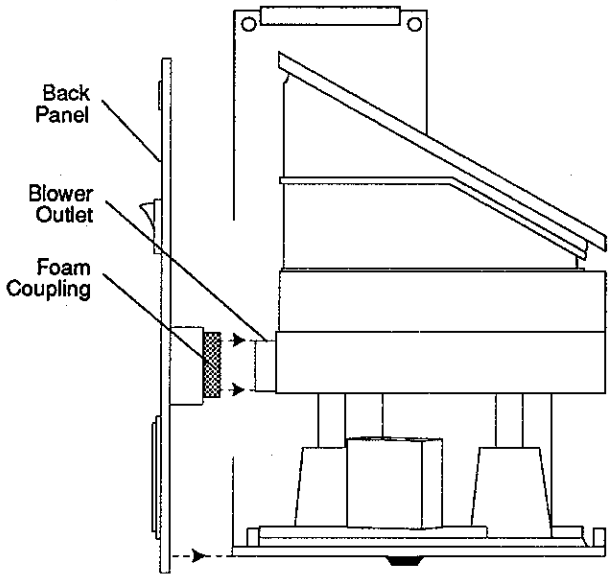
Tools Needed:

- Phillips Screwdriver

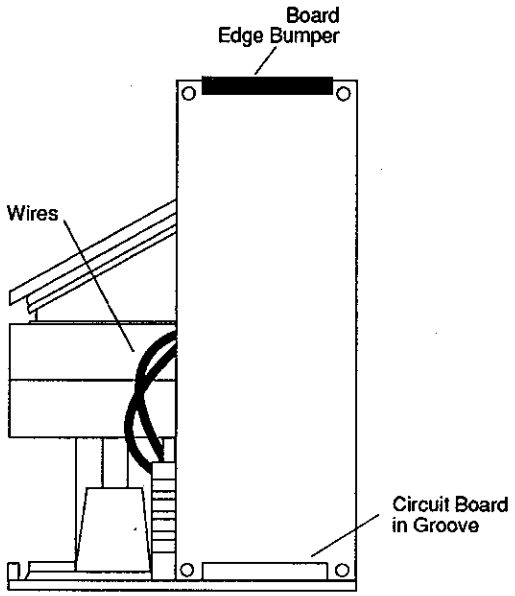
WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

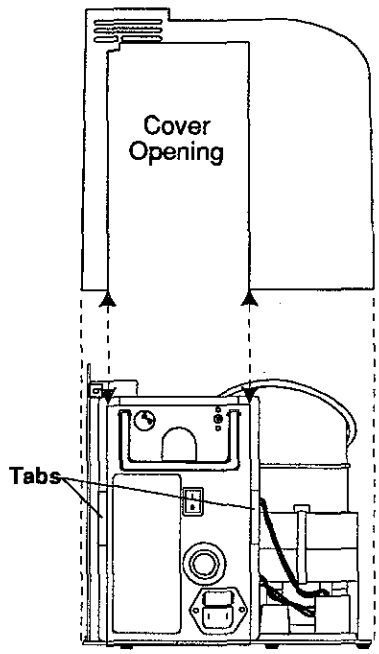
STEP 1 Set the unit upright. Position the unit as shown. Make sure that the blower outlet is fully inserted into the foam coupling located on the inside of the back panel of the unit. If the outlet is not in place, gently press the back panel and the blower together until the outlet is in place.



STEP 2 Make sure that the four connectors are securely connected to the circuit board. Verify that the circuit board edge bumper is in place on the printed circuit board. If it is not, it may have been caught in the top of the cover or fallen off onto the top of the transformer. Position the circuit board in the groove in the base. Check that the two wires between the blower and the transformer are pushed toward the blower.



STEP 3 Position the cover over the unit. Starting on the left side, make certain that the opening on the back of the cover is lining up with the back panel of the unit. Verify that the cover slides properly between the tabs on the unit back. Slide the cover down, while pushing it forward, away from from you, until it snaps over the base of the unit.

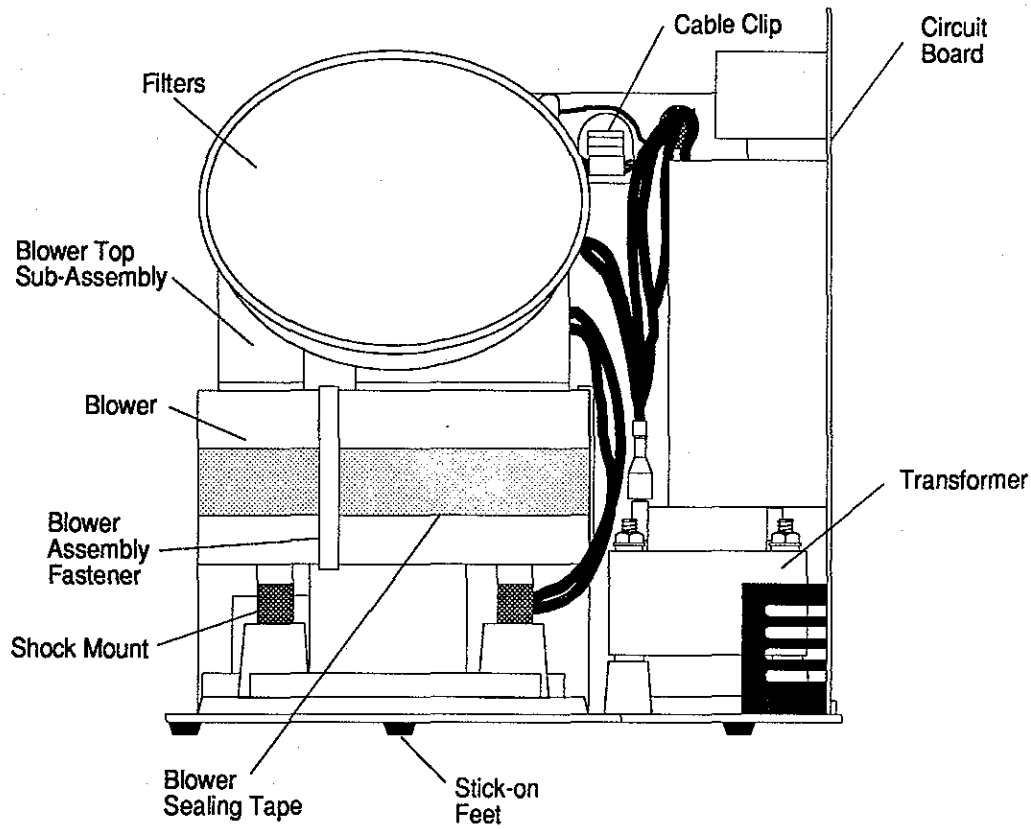


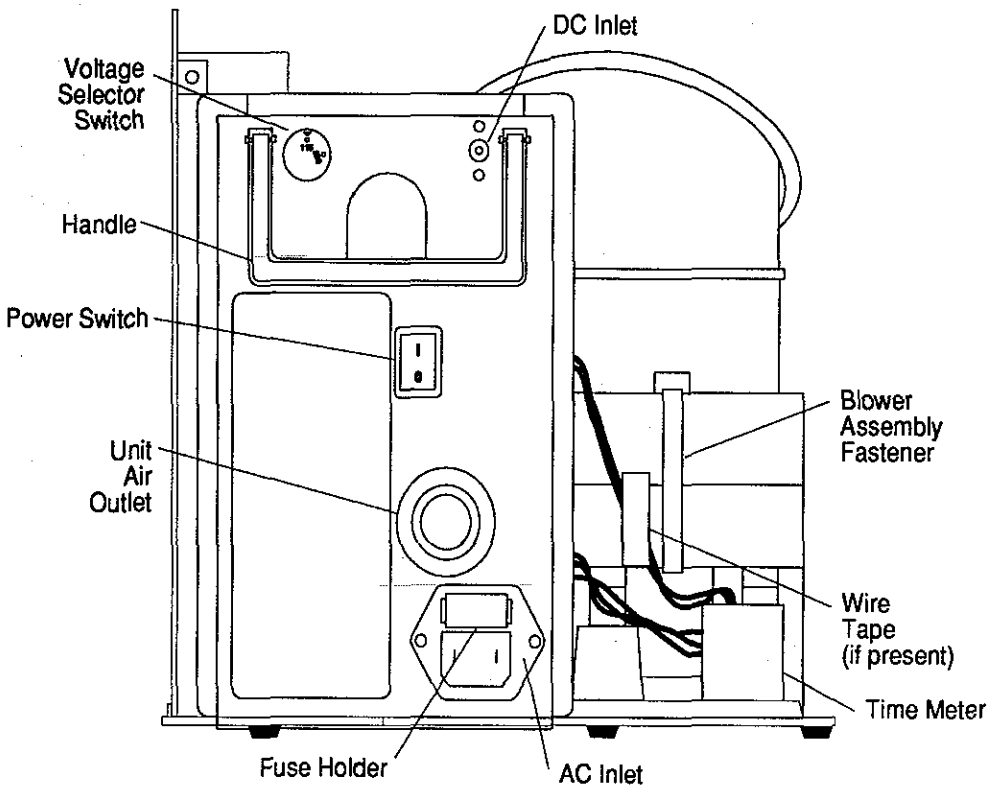
STEP 4 Tilt the unit onto its back. Make sure that the cover fits snugly around the base. If it does not, lift it back off of the unit and replace it again. Check the wire positions. Re-install the three screws into the bottom of the unit. Recommended tightening torque: 3 inch-lb.

NOTE: If using an electric screwdriver, the speed must be set on SLOW.

STEP 5 Set the unit upright. Hold the gray filter with the notched edge facing down and gently tuck the filter's edge in under the lip of the unit.

6.1 COMPONENT LOCATIONS





Any items not discussed in this section are not field-replaceable. Contact the Respironics Technical Service Department for information.

If you require technical assistance during any of these repair and replacement procedures, call:

Respironics Technical Service Department 800-722-4271
Monday through Friday - 7:30 a.m. to 4:30 p.m. EST

6.2 REPLACING THE BLOWER

Part #362532

Included with the Replacement Kit:

- Complete Blower Assembly
- 6-32 Nut w/ Lockwasher (3 each)
- Foam Tape (1 each)

Additional Supplies Needed:

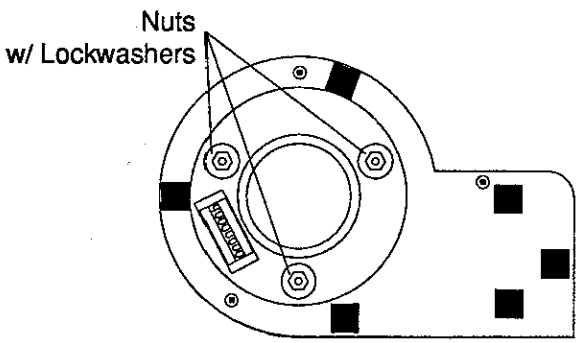
- Threadlock (e.g. LOCTITE® 222 or omniFIT® 1150)
- 5/16 in. Socket Driver
- Phillips Screwdriver

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

STEP 1 Remove the cover (refer to Section 5 for detailed instructions).

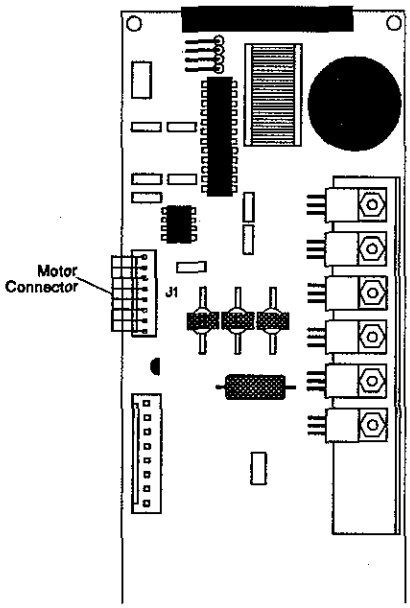
STEP 2 Lay the unit on its back. Using the 5/16 in. socket driver, remove the three nuts with lock washers recessed into the bottom of the unit. If the blower shock mount begins to rotate, hold it steady with one hand while you remove the nut with your other hand.



STEP 3 Set the unit upright. Remove the circuit board from the groove in the base.

If the old blower has a ribbon cable:
Disconnect the red 8-pin connector from J1 on the circuit board.

If the old blower has eight wire leads:
Disconnect the white 8-pin connector from J1 on the circuit board. Unlatch the black cable clip located on the back panel of the unit and remove the eight motor wires.



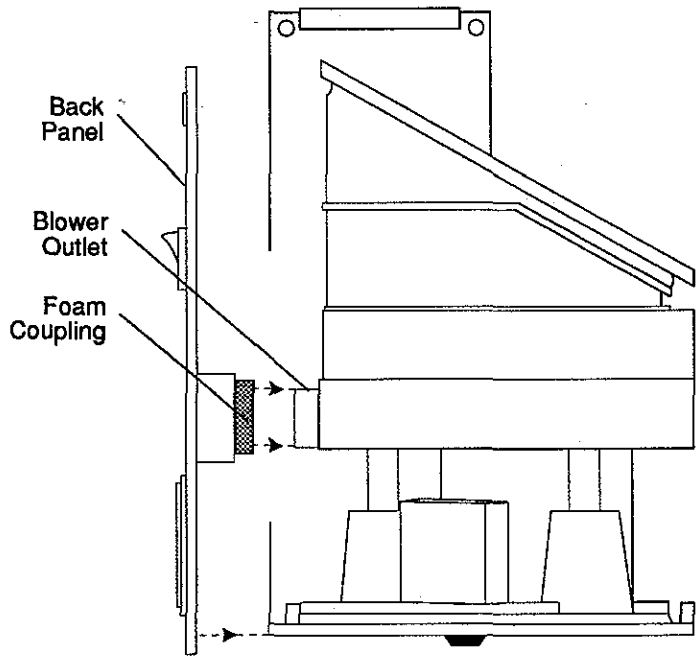
STEP 4 Lift the existing blower assembly out of the unit and set it aside. Place the new blower assembly into the same three posts, making sure that the shock mount studs are inside of the posts.

STEP 5 Lay the unit on its back. Place one or two drops of threadlock onto either the shock mount studs or nuts and firmly tighten the shock mounts. If the shock mount begins to rotate, hold it steady with one hand while you tighten the nut with your other hand. Recommended Torque: 2 inch-lb.

NOTE: The shock mounts must not be twisted or stretched beyond their free length. If necessary, loosen the nuts. Adjust the blower alignment. Torque with 2 inch-lb.

STEP 6 Set the unit upright with the back of the unit facing you. Route the ribbon cable around the blower back and between the two black transformer wires to the circuit board. Plug the red 8-pin connector into J1 on the circuit board; make sure the lock tabs are facing the edge of the circuit board. The connector should firmly lock into place.

STEP 7 Looking at the left side of the unit, make sure that the blower outlet is fully inserted into the foam coupling located on the inside of the back panel of the unit. If the outlet is not in place, gently press the back panel and the blower together until the outlet is in place.



STEP 8 Replace the cover (refer to Section 5 for detailed instructions).

STEP 9 Verify pressure reading following detailed instructions in Section 2. Reset pressure if required.

6.3 REPLACING THE BLOWER TOP ASSEMBLY

Part #362533

Included with the Replacement Kit:

- Complete Blower Top Assembly
- Blower Assembly Fasteners (3 each)
- Blower Sealing Tape (1 each)
- Wire Tape (1 each)
- Shock Mounts (3 each)
- 6-32 Nut w/ Lockwasher (3 each)

Additional Supplies Needed:

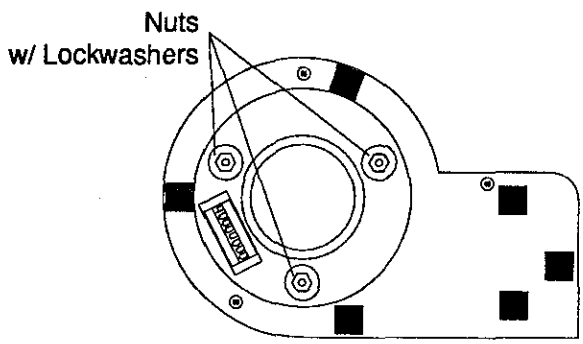
- Phillips Screwdriver
- Utility Knife or Cutting Blade
- 5/16 in. Socket Driver
- Threadlock (e.g. LOCTITE® 222 or omniFIT® 1150)
- Slotted Screwdriver (optional)

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

STEP 1 Remove the cover (refer to Section 5 for detailed instructions on removing and replacing the cover).

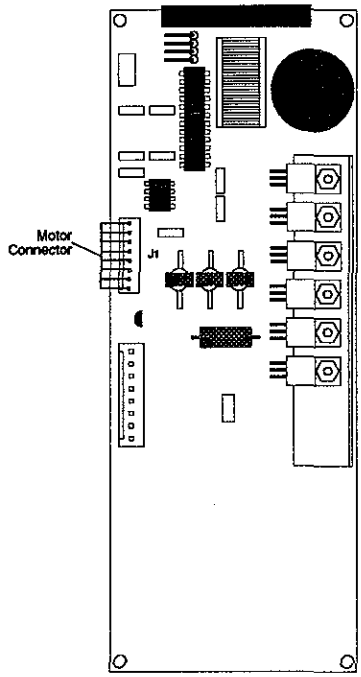
STEP 2 Lay the unit on its back. Using the 5/16 in. socket driver, remove the three nuts with lockwashers recessed into the bottom of the unit. If the blower shock mount begins to rotate, hold it steady with one hand while you remove the nut with your other hand.



STEP 3 Set the unit upright. Remove the circuit board from the groove in the base.

If the old blower has a ribbon cable:
Disconnect the red 8-pin connector from J1 on the circuit board. Pry the rear blower assembly fastener from the back of the blower (see page 6-1) to release the ribbon cable.

If the old blower has eight wire leads:
Disconnect the white 8-pin connector from J1 on the circuit board. Unlatch the black cable clip located on the back panel of the unit and remove the eight motor wires. Pull the motor wires out of the foam tape fastened to the blower or to the second cable clip on the back panel (whichever is appropriate to your unit).



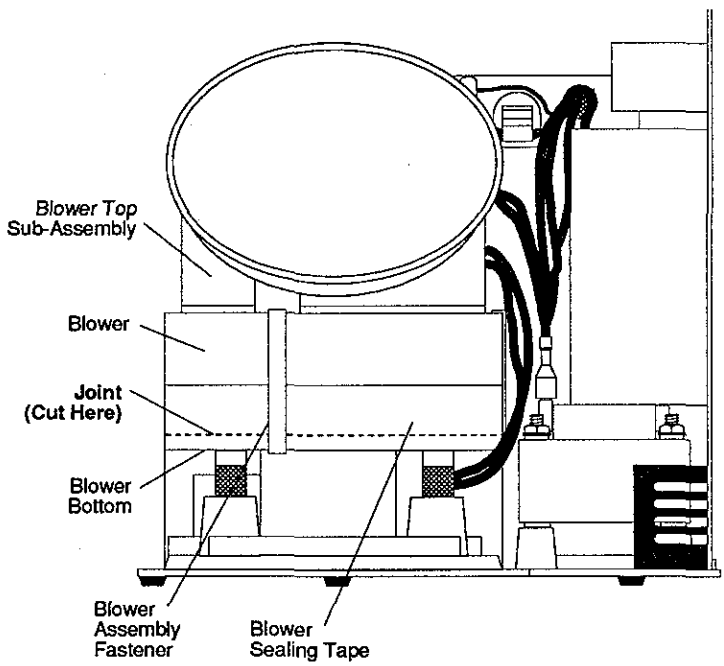
STEP 4 Lift the existing blower assembly out of the unit. Remove the three (3) blower assembly fasteners from the blower. You may need to use a slotted screwdriver to help pry the fasteners off. Discard the fasteners.

STEP 5 Find the joint between the blower top and bottom. Using a knife or cutting blade, cut along the joint all the way around the blower.

STEP 6 Gently lift the blower top from the blower, taking care not to contact the fan blade inside of the blower.

STEP 7 Place the new blower top assembly onto the blower, again taking care not to contact the fan blade. Make sure the blower top is aligned and fully seated.

STEP 8 Attach the blower sealing tape on top of the old tape starting on the very edge of the blower outlet and going all the way to the other edge. Tear off any excess tape.



STEP 9 Attach the two front-most blower assembly fasteners, making sure that they snap into the dimples located on the blower top and bottom. Do not attach the rear fastener.

STEP 10 Place the new blower assembly into the same three posts. Make sure that the shock mount studs are inside of the posts. The shock mounts can be replaced with the new ones if desired.

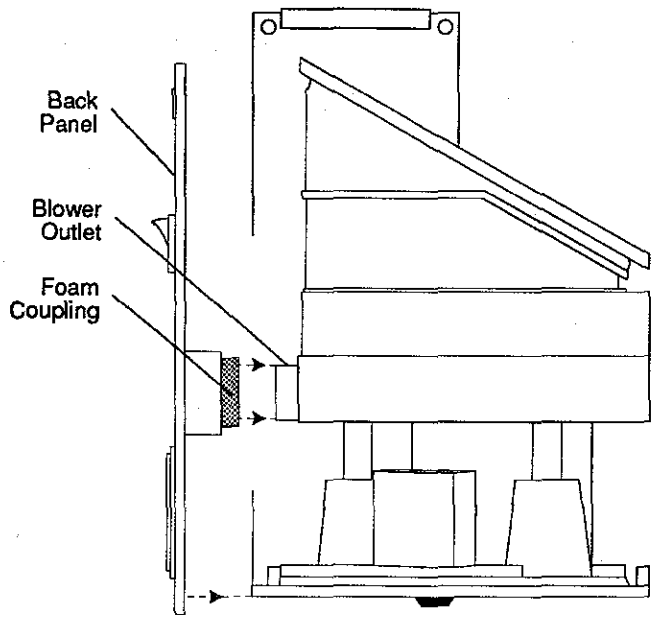
STEP 11 Lay the unit on its back. Place one or two drops of threadlock onto either the shock mount studs or nuts and firmly tighten the shock mounts. If the shock mount begins to rotate, hold it steady with one hand while you tighten the nuts with your other hand. Recommended Torque: 2 inch-lb.

NOTE: The shock mounts must not be twisted or stretched beyond their free length. If necessary, loosen the nuts. Adjust the blower alignment. Retorque to 2 inch-lb.

STEP 12 Set the unit upright with the back of the unit facing you. Route the ribbon cable around the blower back and between the two black transformer wires to the circuit board. Plug the red 8-pin connector into J1 on the circuit board; make sure the lock tabs are facing the edge of the circuit board. The connector should firmly lock into place.

STEP 13 Replace the rear blower assembly fastener with the ribbon cable routed under it.

STEP 14 Looking at the left side of the unit, make sure that the blower outlet is fully inserted into the foam coupling located on the inside of the back panel of the unit. If the outlet is not inplace, gently press the back panel and the blower together until the outlet is in place.



STEP 15 Replace the cover (refer to Section 5 for detailed instructions).

STEP 16 Verify pressure reading following detailed instructions in Section 2. Reset the pressure if required.

6.4 REPLACING THE TRANSFORMER

Part #362542

Included with the Replacement Kit:

- Transformer
- 8-32 Nut w/ Lockwashers (4 each)
- Hex Head Screws (4 each)
- Base Label (1 each)
- Nylon Shoulder Washers (8 each)

Additional Supplies Needed:

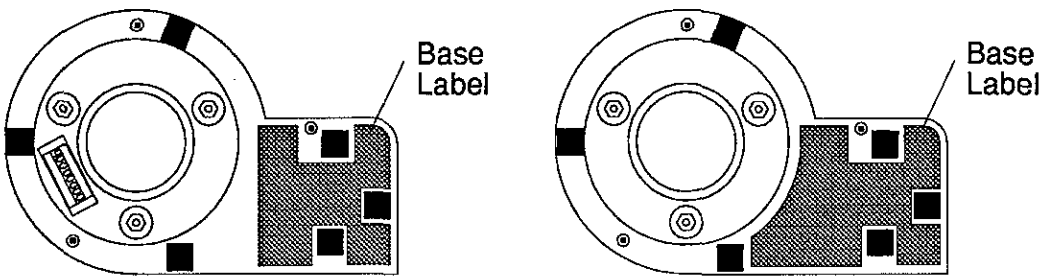
- 11/32 in. Socket Wrench
- Threadlock (e.g. LOCTITE® 222 or omniFIT® 1150)
- Isopropyl Alcohol or a Mild Soap Cleanser
- Needle Nose Pliers
- Phillips Screwdriver

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: *Electronic components used in this unit are subject to damage by static electricity. Use proper* static discharge and grounding precautions when servicing the equipment.

STEP 1 Remove the cover (refer to Section 5 for detailed instructions).

STEP 2 Lay the unit on its back and remove the base label. Use isopropyl alcohol (or a mild soap cleanser) to remove any remaining adhesive.



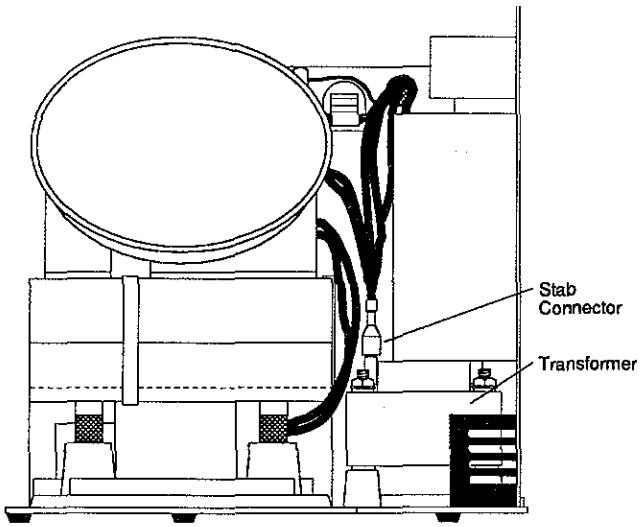
Your REMstar unit may have either label configuration

STEP 3 Set the unit upright. Lift the circuit board out of its groove and disconnect the four wire connectors. Set the circuit board aside onto conducting material or a grounded surface.

STEP 4 Using the needle nose pliers, remove the 10 stab connectors attached to the transformer. Push the wires out of the way.

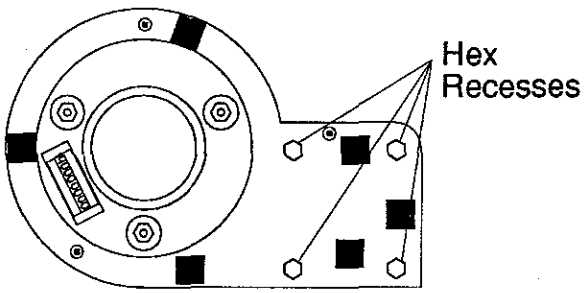
STEP 5 Using the 11/32 in. socket wrench, remove the four (4) nuts with lockwashers on the top of the transformer. Lift the transformer out of the unit.

STEP 6 If desired, you can replace the four (4) hex head screws holding the transformer in place. Place the two nylon spacer washers, if used, inside on the front two screws.



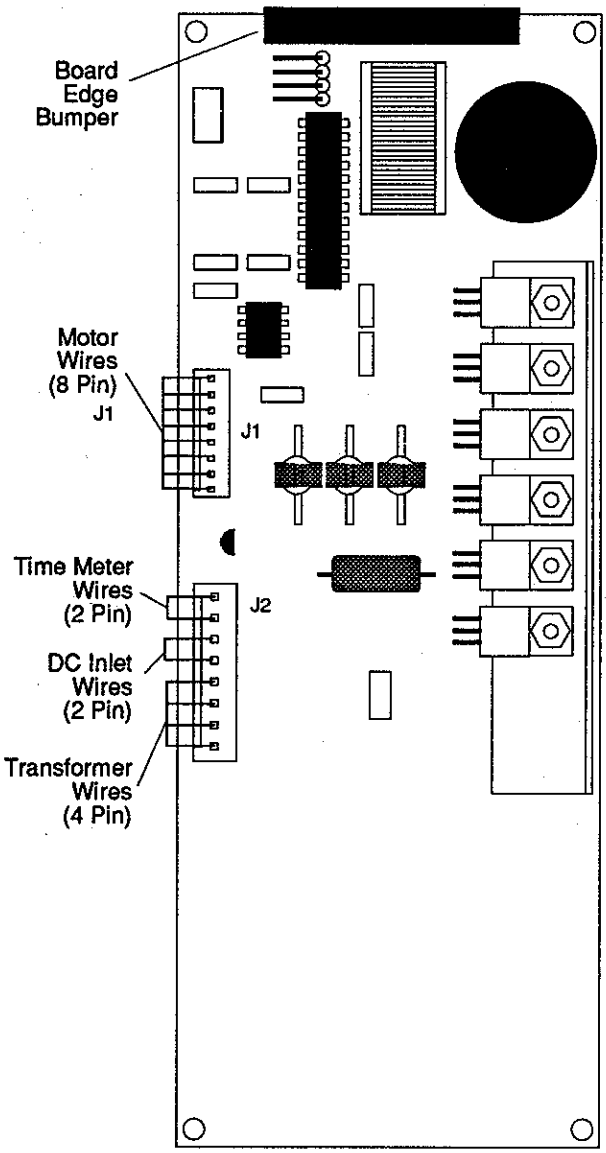
STEP 7 Place the new transformer on top of the screws. Make sure that all of the eight (8) shoulder washers are inside of the transformer and that the wires covered with black tape on the inside of the transformer are facing the outside of the unit (next to the circuit board).

STEP 8 Lay the unit on its back. Using the screwdriver, push the four screws inside the hex recesses in the bottom. If necessary, hold them in place while you place one or two drops of threadlock onto the threads of the screw ends. Tighten the nuts onto the screws. Tighten all four (4) nuts. Peel the back from the new base label and attach the label to the bottom of the unit.



STEP 9 Set the unit upright. Reconnect the wires with stab connectors according to the wiring diagram in Section 1.

STEP 10 Reconnect the wires to the circuit board as shown below and set the circuit board into the groove on the unit's base.



STEP 11 Replace the cover (refer to Section 5 for detailed instructions).

STEP 12 Verify pressure reading following detailed instructions in Section 2. Reset pressure if required.

6.5 REPLACING THE MAIN CIRCUIT BOARD

Part #362534

Included with the Replacement Kit:

- Main Circuit Board
- Board Edge Bumper

Additional Supplies Needed:

- Phillips Screwdriver
- Slotted Screwdriver (smaller than 1/8 in.)

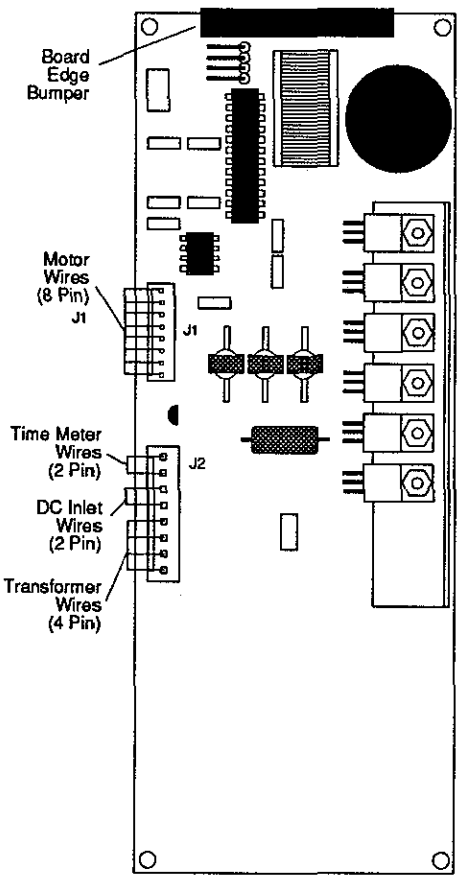
WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

STEP 1 Remove the cover (refer to Section 5 for detailed instructions).

STEP 2 Lift the circuit board out of the groove in the base and disconnect the four wire connectors.

STEP 3 Remove the new circuit board from the static protective bag. Reattach the four wire connectors to the new circuit board as shown:



STEP 4 Set the new circuit board into the groove on the unit's base. Make sure the board edge bumper is in place.

STEP 5 Replace the cover (refer to Section 5 for detailed instructions).

STEP 6 Set the prescription pressure per the set up instructions in Section 2.

6.6 REPLACING THE POTENTIOMETER

Part #362558

Included with the Replacement:

- Potentiometer (2 ea.)

Additional Supplies Needed:

- Phillips Screwdriver
- Soldering Iron:
  - Grounded or Isotip
  - Heat setting: 750° ,sco,i,
  - 30 Watts maximum
  - Solder Tip Width: 1/8 in. maximum
- Soldering Wire:
  - Mil-Spec: QQ-S571
  - Flux Core: RMA
  - Diameter: 0.020 in. to 0.035 in.
  - Tin/Lead ratio: 63/37 or 60/40
- Desoldering Pump (with conductive tip)
- Needle-Nose Pliers
- Fine Point Diagonal Pliers

Slotted Screwdriver (smaller thatn 1/8 in.)

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

NOTE: An extra potentiometer is provided for your convenience, but can be discarded if not needed.

STEP 1 Remove the cover (refer to Section 5 for detailed instructions).

STEP 2 Lift the circuit board out of the groove in the base and disconnect the motor, time meter, DC inlet, and transformer wires.

STEP 3 Desolder the wires on the back of the potentiometer. Remove the potentiometer from the circuit board and discard.

STEP 4 Remove any remaining solder from the solder pads. Using a cotton swab and isopropyl alcohol, clean each of the three solder pads, on both sides.

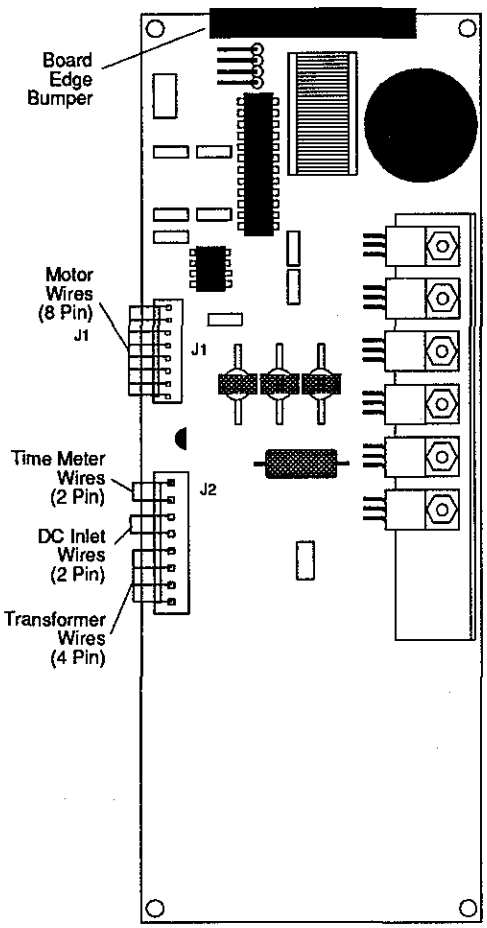
STEP 5 Install the new potentiometer with the adjusting screw facing the edge of the circuit board. Using the needle nose pliers, bend the three leads to secure the potentiometer to the circuit board. Using the fine point diagonal pliers, trim the leads no shorter than 1/16". Make sure the leads do not touch each other.

STEP 6 Solder the three leads onto the circuit board and allow to cool.

STEP 7 Reattach the four wire connectors to the new circuit board as shown in the illustration.

STEP 8 Set the circuit board into the groove in the unit's base. Make sure the board edge bumper is in place.

STEP 9 Replace the cover (refer to Section 5 for detailed instructions).



STEP 10 Set the prescription pressure per the set-up instructions in Section 2.

6.7 REPLACING THE POWER SWITCH

Part #362543

Included with the Replacement Kit:

- Power Switch

Additional Supplies Needed:

- Phillips Screwdriver
- Needle Nose Pliers

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

STEP 1 Remove the cover (refer to Section 5 for detailed instructions).

STEP 2 Disconnect the power switch behind to remove it from the back panel.

STEP 3 Using the needle nose pliers, remove the four stab connectors attached to the switch. Push the wires out of the way.

STEP 4 Hold the new switch with the "I" marking on top and reattach the four wire connectors, using the needle nose pliers to the new switch as shown below:

BOTTOM LEFT — BLACK
BOTTOM RIGHT — WHITE } From AC Inlet

TOP LEFT — RED
TOP RIGHT — WHITE } From Transformer

STEP 5 Snap the switch into the back panel.

STEP 6 Replace the cover (refer to Section 5 for detailed instructions).

6.8 REPLACING THE TIME METER

Part #362538

Included with the Replacement Kit:

- Time meter (1 each)
- Registration Card
- Time/Date Labels (2 each)
- Wire Tape (1 each)

Additional Supplies Needed:

- Phillips Screwdriver
- Isopropyl Alcohol
- Hot Melt Adhesive
- 5/16 in. Socket Driver (optional)
- Threadlock (e.g. LOCTITE® 222 or omniFIT® 1150) (optional)

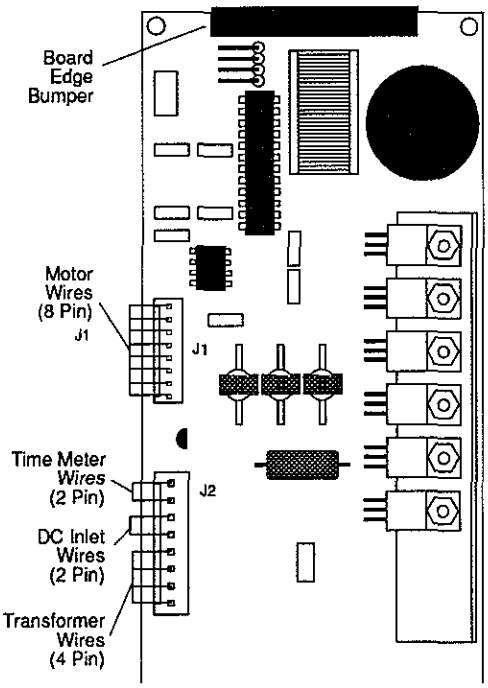
WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

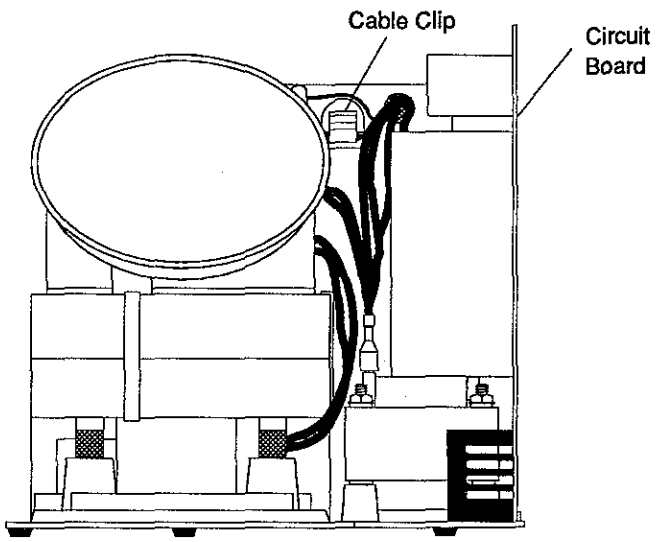
STEP 1 Remove the cover (refer to Section 5 for detailed instructions).

NOTE: If desired, the blower may be removed as per instructions in "Replacing the Blower" to facilitate the time meter removal and replacement.

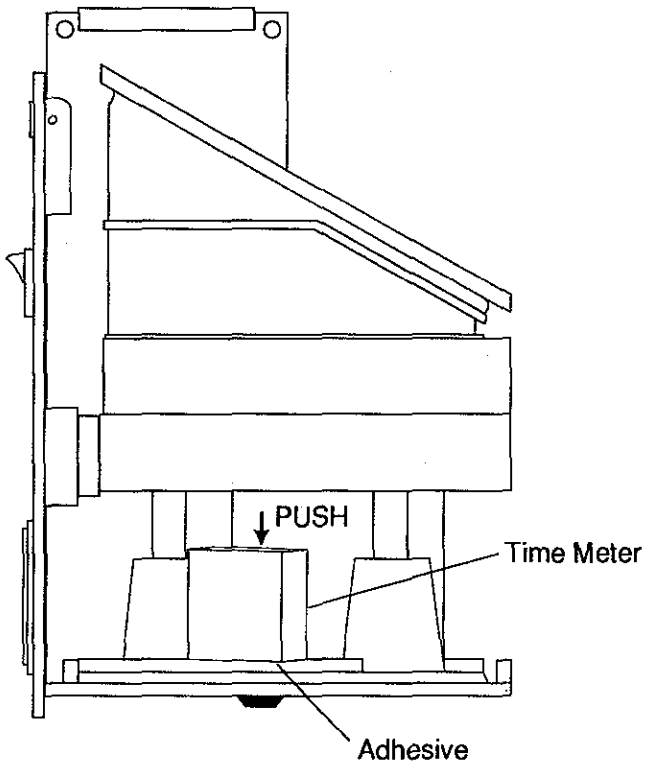
STEP 2 Unplug the time meter connector from its position on J2 on the circuit board.



STEP 3 Remove the time meter wires from the cable clip on the back panel of the unit. Now remove the wires from the wire tape on the blower or the second cable clip located on the back panel, whichever is appropriate to your unit.



STEP 4 Spray the isopropyl alcohol around the bottom of the time meter, where it fits throught the base opening and where the adhesive is located.



STEP 5 Using the needle nose pliers, grasp the glue bead and pull it free from the base and both sides of the time meter.

STEP 6 Lay the unit on its back. Push the time meter from behind to remove it from the base.

STEP 7 Pull the wiring through the base opening and set aside the time meter. Remove any remaining hot melt adhesive from the base of the unit.

STEP 8 Place the new time meter into the opening and snap it into place.

STEP 9 Record the old time meter reading and date of replacement on each of the time/date labels. Attach one of the labels to the side of the time meter. Attach the second label to the bottom of the unit next to the time meter.

STEP 10 Set the unit upright. Using the hot melt adhesive, apply a bead of glue all around the area where the time meter inserts into the base. Allow the glue to dry until cool and solid, approximately five minutes.

STEP 11 If the blower was removed, now re-install it according to the instructions in "Replacing the Blower."

STEP 12 Route the time meter wires through the cable clip. Reattach the wires to the blower with the wire tape. Reattach the wire connector into its position on J2 on the circuit board making sure that the lock tab snaps into place.

STEP 13 Replace the cover (refer to Section 5 for detailed instructions).

6.9 REPLACING THE AC INLET

Part #502057

Included with the Replacement Kit:

- AC Inlet
- Screws (2 each)
- Fuse Holder

Additional Supplies Needed:

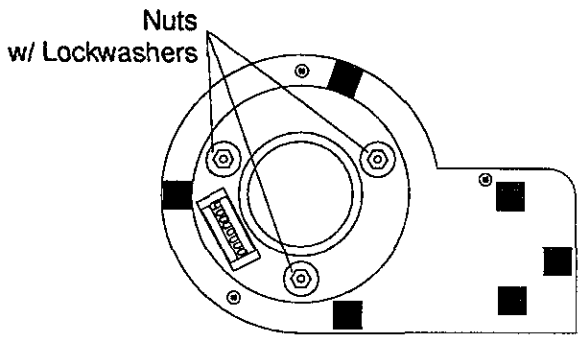
- Phillips Screwdriver
- Small Slotted Screwdriver (optional)

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

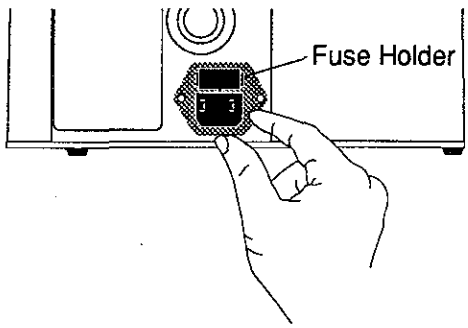
STEP 1 Remove the cover (refer to Section 5 for detailed instructions).

STEP 2 Lay the unit on its back. Using the 5/16 in. socket driver, remove the three nuts with lockwashers recessed into the bottom of the unit. If the blower shock mount begins to rotate, hold it steady with one hand while you remove the nut with your other hand.



STEP 3 Remove the 8-pin motor connector from J1 on the Main Circuit Board.

STEP 4 Position the unit so that the front is facing you. Lift the existing blower assembly out of the unit's base and set it aside. Using the needle nose pliers, disconnect the two stab connectors from the back of the AC Inlet.



STEP 5 Position the unit so that the back is facing you. Remove the fuse holder by releasing the small tabs on the sides of the holder. You may need a small screwdriver to help remove the holder. Remove the fuses and set aside. Discard the fuse holder.

STEP 6 Remove the two screws on the sides of the inlet. Remove the AC Inlet and discard.

STEP 7 Insert the new AC Inlet into the back of the unit making sure the fuse holder is positioned on top. Insert the two screws and tighten to secure the new AC Inlet.

STEP 8 Remove the fuse holder from the new Inlet by releasing the small tabs on the sides of the holder. You may need a small screwdriver to help remove the holder. Place the fuses inside the holder. Insert the fuse holder back into the unit and snap into place.

STEP 9 Position the unit so that the front is facing you. Using the needle nose pliers, reconnect the two stab connectors on the back of the AC Inlet (with the front of the unit facing you, connect the white wire on the left side and the black wire on the right side).

STEP 10 Set the blower assembly back into position on the three posts, making sure that the shock mount studs are inside of the posts.

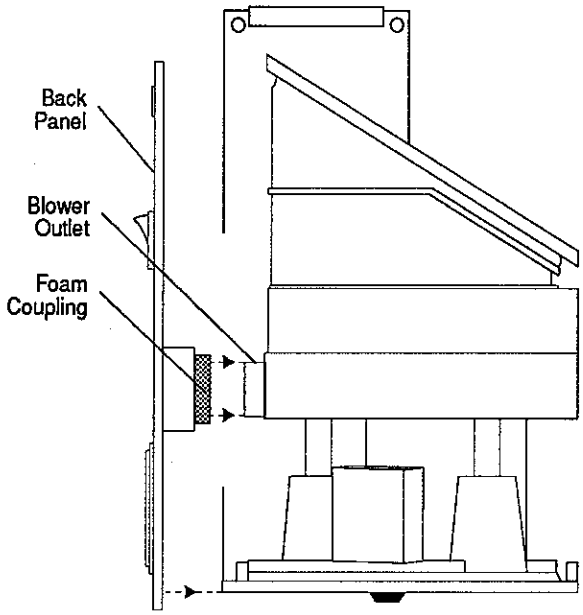
STEP 11 Lay the unit on its back. Place one or two drops of threadlock onto either the shock mount studs or nuts and firmly tighten the shock mounts. If the shock mount begins to rotate, hold it steady with one hand while you tighten the nut with your other hand. Recommended Torque: 2 inch- lb.

NOTE: The shock mounts must not be twisted or stretched beyond their free length. If necessary, loosen the nuts. Adjust the blower alignment. Retorque to 2 inch-lb.

STEP 12 Looking at the left side of the unit, make sure that the blower outlet is fully inserted into the foam coupling located on the inside of the back panel of the unit. If the outlet is not in place, gently press the back panel and the blower together until the outlet is in place.

STEP 13 Reconnect the 8-pin Motor connector to J1 on the Main Circuit Board.

STEP 14 Replace the cover (refer to Section 5 for detailed instructions).



6.10 REPLACING THE HANDLE

Part #362535

Included with the Replacement Kit:

- Handle
- Handle Fasteners (2 each)

Additional Supplies Needed:

- Needle Nose Pliers
- Slotted Screwdriver (less that 1/8 in.)
- Phillips Screwdriver (#1 or #0)

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

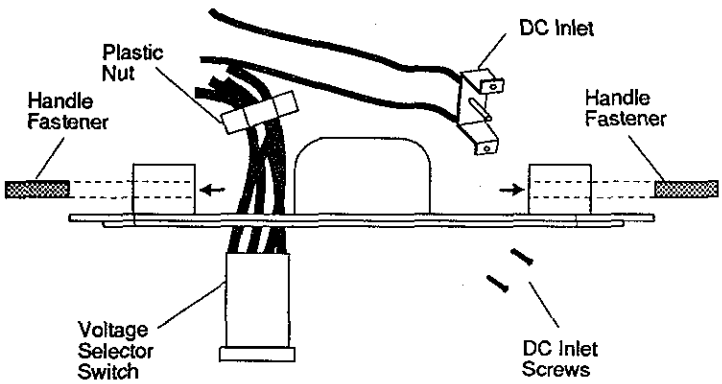
STEP 1 Remove the cover (refer to Section 5 for detailed instructions).

STEP 2 Set the unit upright with the back panel facing you. Using the pliers and nut driver, completely loosen the plastic nut on the voltage selector switch. Push the switch through the back panel. (You do not need to disconnect the wires.)

STEP 3 Using the small Phillips screwdriver, remove the two brass screws holding the DC inlet and let it hang suspended by its wires.

STEP 4 Line up the small slotted screwdriver with the inside edge of one of the handle fasteners and push it toward the outside of the back panel. Remove the handle fastener and discard it.

TOP VIEW OF BACK PANEL



STEP 5 Repeat with the handle fastener on the other side of the handle. Remove the handle.

STEP 6 Place the new handle into its recess, making sure that the side with the four round marks faces the unit.

STEP 7 Take one new handle fastener and place it, smooth end first, into the outside edge of the fastener opening. When the grooved end of the fastener begins to contact the back and you can no longer push by hand, use the pliers to finish engaging the handle fastener until it is flush with the back. Repeat with the other side.

STEP 8 Push the voltage selector switch back into place in the back panel and tighten the plastic nut. Reattach the DC inlet with the two screws.

STEP 9 Replace the cover (refer to Section 5 for detailed instructions).

6.11 REPLACING THE COVER

Part #362536

Included with the Replacement Kit:

- REMstar Enclosure Assembly (1)
- Screws (3 each)

Additional Supplies Needed:

- Phillips Screwdriver

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

CAUTION: Electronic components used in this unit are subject to damage by static electricity. Use proper static discharge and grounding precautions when servicing the equipment.

Refer to Section 5 for detailed instructions on removing and replacing the cover.

6.12 REPLACING THE STICK-ON FEET

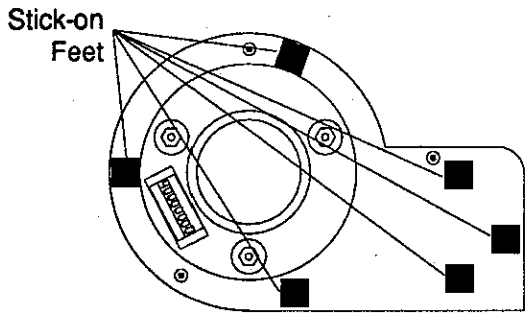
Part #362537

Included with the Replacement Kit:

- Stick-on Feet (6 each)

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

Lay the unit on its back. Remove the paper backing from the stick-on feet and attach them to the bottom of the unit in the places shown below:



6.13 REPLACING THE DISPOSABLE FILTER

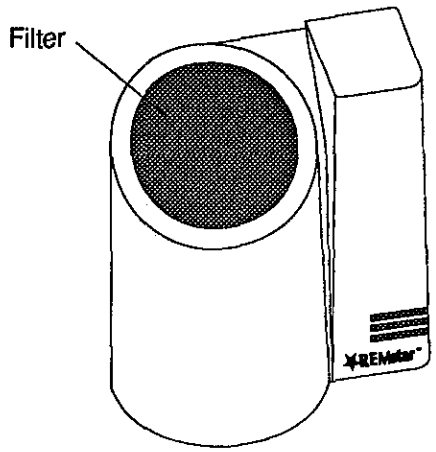
Part #362522

Included with the Replacement Kit:

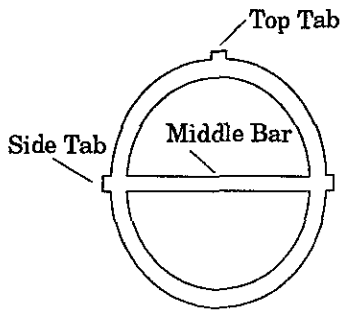
- Disposable Filters (package of 6)

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

STEP 1 Remove the gray filter gently pulling around the edges of the filter.



STEP 2 If being used, remove the plastic filter retaining ring by pulling the tabs on the side and top of the ring out of their slots. Remove the white filter and discard. Replace with a new filter. Make sure the filter is laying flat. If you are using the filter retaining ring, bend the ring in the middle (using the middle bar) and insert the bottom of the filter retaining ring and then insert the top tab into the top slot in the unit. Bend the ring in the middle (using the middle bar) again, to engage the two side tabs into the holder.



STEP 3 Hold the gray filter with the notched edge facing down and gently tuck the filter's edge in under the lip of the unit.

NOTE: Disposable filters should be replaced once per month or sooner if necessary.

NOTE: If you are using the optional white filter, you must use the filter retaining ring or filter securing kit to retain the filter at all times.

6.14 REPLACING THE REUSABLE FILTER

Part #362521

Included with the Replacement Kit:

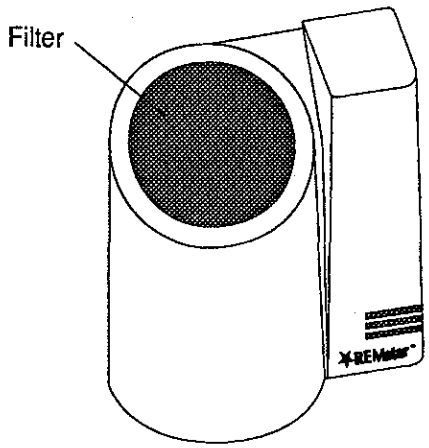
- Reusable Filter (1 each)

WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

STEP 1 Remove the gray filter by gently pulling around the edges of the filter.

STEP 2 Hold the new filter with the notched edge facing down and gently tuck the filter's edges in under the lip of the unit.

STEP 3 Replace the filter cap by inserting the four small inner tabs on the bottom of the cap inside the bottom of the unit's rim. The large tabs on the filter cap should be on the outside of the rim. Firmly press down on the top of the filter cap to snap the top tabs into place.



NOTE: Reusable filters should be cleaned once per month or sooner if necessary. Replace every six months.

To Clean the Reusable Filter:

Rinse the filter in a steady stream of running water. Squeeze out the water and rinse again. Repeat several times. *The filter may be air dried on a rack for 8 to 12 hours or in a clothes dryer on high for 15 to 20 minutes.* If you are drying the filter with other articles, allow the filter to remain in the dryer throughout the entire drying cycle. For additional information, refer to the patient instructions.

THE FILTER MUST BE COMPLETELY DRY BEFORE USE.
NEVER PLACE A WET FILTER INTO THE REMstar UNIT.

6.15 REPLACING THE FUSES

Part #362523 (800 mA) or #362527 (400 mA)

Included with the Replacement Kit:

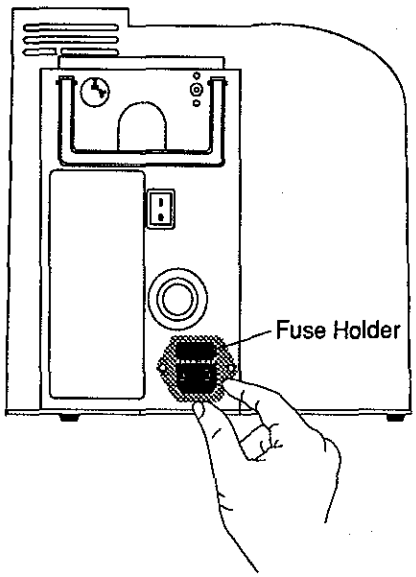
- Fuses (2 each)

Additional Supplies Needed:

- Small Slotted Screwdriver (optional)

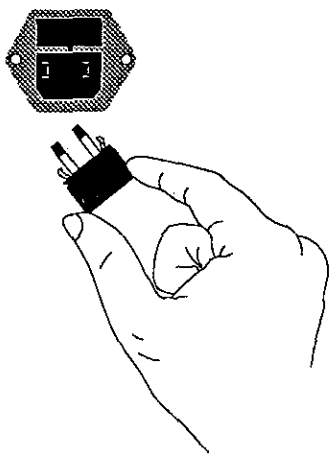
WARNING: Electrical Shock Hazard: Disconnect the electrical supply before making repairs to the unit.

STEP 1 Remove the fuse holder by releasing the small tabs on the sides of the holder. You may need a small screwdriver to help remove the holder.



STEP 2 Replace the old fuses with new fuses of the same type and rating. Always replace both fuses. Refer to Specifications in Section 1.

STEP 3 Insert the fuse holder back into the unit and snap into place.



RESPIRONICS INC®

REMstar® Preventative Maintenance Schedule

(Factory Recommended)

Patient _____ Dealer _____

Address _____ Address _____

_____ _____

Phone _____ Phone _____

Model _____ Serial _____ Date Purchased _____

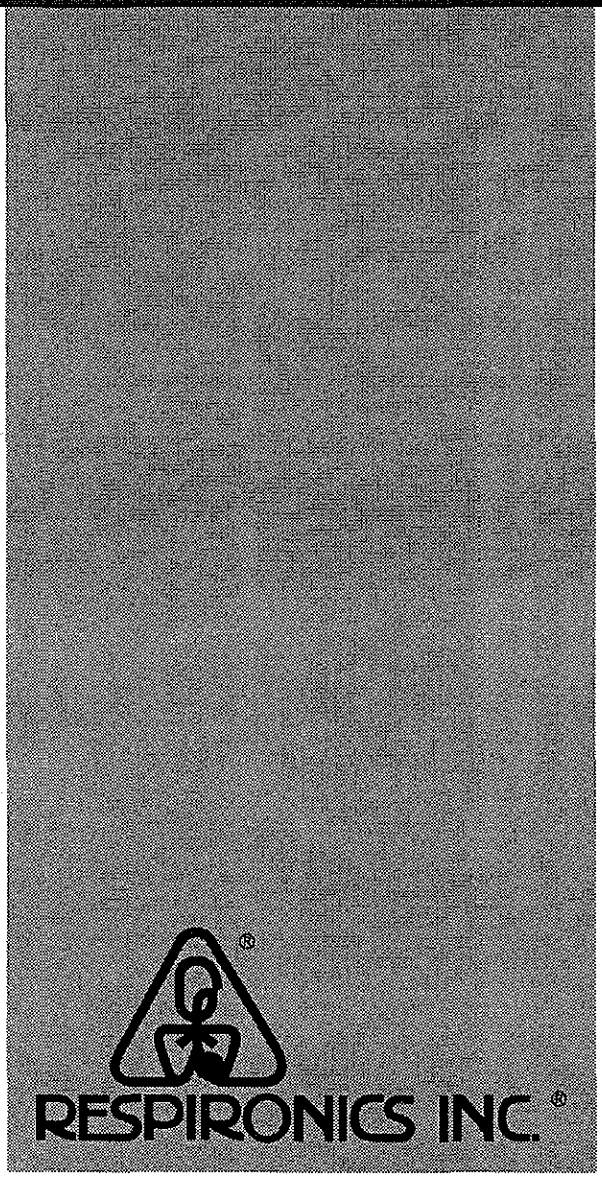
Refer to the Dealer Service Manual for maintenance and service instructions.

Maintenance Item	Service Interval	Date				
Record hours on meter	At setup, maintenance, or service					
Verify voltage selector switch	At setup					
Verify patient pressures	At setup					
Replace disposable filter	30 days					
Reusable filter	Clean monthly					
Replace mask	As needed					
Check unit pressure	Yearly					
Inspect headgear and mask	Yearly					
Inspect fuses	Yearly					

1001 Murry Ridge Drive, Murrysville, PA 15668-8550
412/733-0200 Fax: 412/733-0299

366900
5/92

Repair Parts Price List



THE FIRST NAME IN INNOVATIVE RESPIRATORY CARE

1001 Murry Ridge Drive • Murrysville, Pennsylvania • 15668-8550 • U.S.A.

Ordering Information:

Contact Customer Service at (800) 345-6443 • FAX (412) 733-0299

TERMS AND CONDITIONS

CREDIT POLICY:

- Net 30 day terms are available to qualified accounts.
- All accounts with invoices exceeding these terms will be contacted by our collection department.
- A 1.5% monthly finance charge will be assessed on all past due invoices.

MINIMUM ORDER:

There is no minimum order amount for items ordered exclusively from this Repair Parts Price List. Any order combining items from this price list with another price list will be subject to Respironic's normal minimum order amount of $100. A $15 special handling fee is added to orders that do not meet the minimum amount. Contract accounts should check their contract terms.

FREIGHT:

F.O.B. Murrysville, Pennsylvania. All freight charges will be prepaid and added to the invoice.

RETURNED GOODS:

Respironics strives to ship quality products strictly in accordance with your order. However, we expect that occasionally you will need to return product to Respironics. In order to allow us to process product returns quickly and efficiently (and issue credit as appropriate), please follow these guidelines when returning product:

- Obtain a Returned Goods Authorization (RGA) number from our Customer Service Department before returning any product. Please be ready to provide the Respironics invoice number, the Respironics order number, or your purchase order number when requesting an RGA. Credit memos cannot be processed in a timely manner if this information is not provided.

- Please mark the RGA number clearly on the outside of the boxes you return. Unauthorized returns may be refused and returned at the customer's expense. All returns should be shipped prepaid.

- The issuance of credit for returned product is subject to inspection and approval of the product by Respironics personnel.

- In order to cover our costs associated with processing returns, a 20% re-stocking fee may be imposed. This fee will be waived for returns resulting from Respironics shipping or order entry errors if the error is identified within 10 days of receipt or for the return of defective product.

NON-RETURNABLE MERCHANDISE:

Respironics cannot accept returns of the following products:

- Custom ordered product (not listed on our published price list).
- Products invoiced more than six months from the date of request for return.
- Discontinued product (not listed on current published price list or formally discontinued).
- Product not in its original, unopened package.

PRICES:

Respironics' policy is to update its price lists periodically throughout the year as new products are added and other changes are made. Prices in the most recent published price list will be used for billing purposes. Prices and terms are subject to change without notice.

REMstar® Repair Parts

Part #	Description	Dealer	Suggested Retail
502057	AC Inlet Includes: Connector, fuse drawer, mounting hardware (fuses not included)	7.20	10.30
362532	Blower Assembly	265.00	380.00
362533	Blower Top Assembly	33.00	47.50
362536	Cover	40.00	65.00
362555	Filter Cap	N/C	N/C
362521	Filter, gray reusable	13.25	17.65
362522	Filter Pack, disposable, (6/pk)	14.50	19.30
362525	Filter Retaining Ring	4.95	6.20
362523	Fuses, 800 mA, (2/pk, for 115 V)	3.35	4.50
362527	Fuses, 400 mA, (2/pk, for 230 V)	3.35	4.50
362535	Handle	3.75	5.35
502061	Hook Tape (2/pk) replaces 362525 Filter Retaining Ring	.25	.40
362534	PC Board Assembly	176.00	252.00
362558	Potentiometer	7.10	10.35
362524	Power Cord, Home, 115 V	19.40	25.80
362539	Power Cord, Euro-Cord	19.40	25.80
362545	Power Cord, Australian	19.40	25.80
362547	Power Cord, British	19.40	25.80
362543	Power Switch	8.35	12.00
362548	Service Manual	N/C	N/C
360691	Screwdriver, small plastic	N/C	N/A
362537	Stick-On Feet	2.95	3.95
362538	Time Meter	35.00	50.00
362542	Transformer	58.00	85.00
332175	Voltage Selector Switch	10.90	15.60